AUG 1 7 2006 AUG 17 AUG 1

SEQUENCE LISTING

Landolfi, Nicholas Tsurushita, Naoya Hinton, Paul Kumar, Shankar

- <120> Amphiregulin Antibodies and Their Use to Treat Cancer and Psoriasis
- <130> 161 US UT01
- <140> US 10/774,076
- <141> 2004-02-06
- <150> US 60/445,640
- <151> 2003-02-07
- <150> US 60/533,901
- <151> 2003-12-30
- <160> 39
- <170> PatentIn version 3.3
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- Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly Ser Glu Ile Ser 50 55 60
- Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp 65 70 75 80
- Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr 85 90 95
- Ile Val Asp Asp Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln

100 105 110

Asn Lys Thr Glu Ser Glu Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys 115 120 125

Lys Gly Gly Lys Asn Gly Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn 130 135 140

Pro Cys Asn Ala Glu Phe Gln Asn Phe Cys Ile His Gly Glu Cys Lys 145 150 155 160

Tyr Ile Glu His Leu Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr 165 170 175

Phe Gly Glu Arg Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile 180 185 190

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Asn Tyr 20 25 30

Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser Gln Lys Phe 50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys 85 90 95

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100 105 110

Thr Thr Leu Thr Val Ser Ser 115

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Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro Lys Thr Leu Ile 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser Ser Leu Glu Tyr 65 70 75 80

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Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr 20 25 30

Tyr Ile His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile 35 40 45

Gly Cys Ile Asp Pro Glu Asn Gly Asp Thr Glu Tyr Ala Pro Asn Phe 50 55 60

Gln Gly Arg Ala Thr Met Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr 65 70 75 80

Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

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Thr Val Ser Ala 115

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Asn Ser Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly 35 40 45

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Ser 65	Gly	Ser	Leu	Ile	Gly 70	Asp	Lys	Ala	Ala	Leu 75	Thr	Ile	Thr	Gly	Ala 80	
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Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe 35 40 45

Thr Asn Tyr Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu 50 60

Glu Trp Ile Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser 65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Ser 90 95

Thr Ala Tyr Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val 100 105 110

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Gly Gln Gly Thr Thr Leu Thr Val Ser Ser 130 135

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120

60

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Ala Ser Leu Gly Glu Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp 35 40 45

Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ser Pro 50 55 60

Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser 65 70 75 80

Arg Phe Ser Gly Ser Gly Gln Asp Tyr Ser Leu Thr Ile Ser 85 90 95

Ser Leu Glu Tyr Glu Asp Met Gly Ile Tyr Tyr Cys Leu Gln Tyr Asp 100 105 110

Glu Phe Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys 115 120 125

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<213> Artificial

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Ser Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ala Phe Thr Asn Tyr 20 25 30

Asn Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser Gln Lys Phe 50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Arg Gly Asn Phe Pro Tyr Tyr Phe Asp Tyr Trp Gly Gln Gly
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Thr Leu Val Thr Val Ser Ser 115

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Thr Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Thr Phe Thr Xaa Xaa 20 25 30

Xaa Xaa Trp Val Gln Gln Ala Pro Gly Lys Gly Leu Glu Trp Met 35 40 45

Xaa Xaa Arg Val Thr Ile Thr Ala Asp Thr Ser Thr Asp Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly
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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Ser Tyr 20 25 30

Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Thr Leu Ile 35 40 45

Tyr Arg Ala Asn Arg Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Gln Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Glu Phe Pro Tyr 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys 100 105

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Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

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Xaa Phe Gly Gly Thr Lys Val Glu Ile Lys 100 105

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Val His Ser Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Val Ser Gly Tyr Ala Phe 35 40 45

Thr Asn Tyr Asn Met Tyr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu

50 55 60

Glu Trp Ile Gly Tyr Ile Asp Pro Tyr Tyr Gly Asp Pro Gly Tyr Ser
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser 85 90 95

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val 100 105 110

Tyr Tyr Cys Ala Arg Arg Gly Asn Phe Pro Tyr Tyr Phe Asp Tyr Trp 115 120 125

Gly Gln Gly Thr Leu Val Thr Val Ser Ser 130 135

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Ala	Ser	Val 35	Gly	Asp	Arg	Val	Thr 40	Ile	Thr	Суѕ	Lys	Ala 45	Ser	Gln	Asp		
Ile	Asn 50	Ser	Tyr	Leu	Ser	Trp 55	Phe	Gln	Gln	Lys	Pro 60	Gly	Lys	Ala	Pro		
Lys 65	Thr	Leu	Ile	Tyr	Arg 70	Ala	Asn	Arg	Leu	Val 75	Asp	Gly	Val	Pro	Ser 80		
Arg	Phe	Ser	Gly	Ser 85	Gly	Ser	Gly	Gln	Asp 90	Tyr	Thr	Leu	Thr	Ile 95	Ser		
Ser	Leu	Gln	Pro 100	Glu	Asp	Phe	Ala	Thr 105	Tyr	Tyr	Cys	Leu	Gln 110	Tyr	Asp		
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